

#2

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/893,499

DATE: 07/13/2001  
TIME: 13:55:21

Input Set : A:\108172-00056.txt  
Output Set: N:\CRF3\07132001\I893499.raw

ENTERED

3 <110> APPLICANT: Hansen, J. Norman  
 5 <120> TITLE OF INVENTION: Construction and Screening of Lantibody Display Libraries  
 7 <130> FILE REFERENCE: 108172-00056  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/893,499  
 C--> 9 <141> CURRENT FILING DATE: 2001-06-29  
 9 <150> PRIOR APPLICATION NUMBER: 60/215,449  
 10 <151> PRIOR FILING DATE: 2000-06-29  
 12 <160> NUMBER OF SEQ ID NOS: 3  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 2517  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Artificial Sequence  
 21 <220> FEATURE:  
 22 <223> OTHER INFORMATION: The EcoRI-HindIII insert of the pLPVc intergrative plasmid.  
 24 <400> SEQUENCE: 1

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27	tcaacgagct	ggattaacag	gtgggcataa	gagttaaat	aaattttaaac	ttatataaca	120
29	catcgcttaa	agttttttg	ttttaaaaac	ttaaaaaaca	tggtaaaatt	atataaaaac	180
31	ataagaaaaga	gtgatttat	gaaatatgt	gttatgataa	tcattttatt	agcactttc	240
33	tttattttta	ctgtttcct	aaatacacgt	tatagtttg	ataaaaatg	cttagtctta	300
35	aaatttggtt	tatctaaaac	agaaattcca	attaatcaa	tagtttagt	taaagagtca	360
37	gacaagtatg	gagttgcaga	taatatcgat	tataaaattg	gtatgccata	tgctcaacca	420
39	gatagaattt	ttattgaaac	tacaataaag	cgtttctag	ttttttaaa	tggagctaa	480
41	caatttattc	aaaagtataa	aagggttagt	gtttgaacat	aaaaaaagtac	cttcttacaa	540
43	tagaaggtag	tttttgtat	ctataattat	taaaaattt	cctaaatttt	tatcattatt	600
45	aattcaaaat	aaatccataa	tagtcaattt	tattttagt	attacaacca	attcgatcc	660
47	aagcacccat	tagtcaaca	aacgaaaatt	ggataaaagt	ggatatttt	aaaatata	720
49	tttatgttac	agtaatattt	acttttaaaa	aaggattgt	tctaattgaag	aaagcagaca	780
51	agtaaggcctc	ctaaattcac	tttagataaa	aatttaggag	gcataatcaa	tgaactttaa	840
53	taaaaattgtat	ttagacaattt	ggaagagaaaa	agagatattt	aatcattatt	tgaaccaaca	900
55	aacgactttt	agtataacca	cagaaattga	tattgtt	ttataccgaa	acataaaaaca	960
57	agaaggatata	aaattttacc	ctgcatttat	tttctttagt	acaagggtga	taaactcaaa	1020
59	tacagctttt	agaactggtt	acaatagcga	cggagagtt	ggttatttgg	ataagttaga	1080
61	gccactttat	acaattttt	atgggttac	taaaacattc	tctggtattt	ggactcctgt	1140
63	aaagaatgac	ttcaaagagt	tttatgattt	ataccattt	gatgttagaga	aatataatgg	1200
65	ttcggggaaa	ttgttccca	aaacacctat	acctgaaaat	gcttttctc	tttcttattat	1260
67	tccatggact	tcatttactt	gtttaactt	aaatatcaat	aataatagta	attaccttct	1320
69	accatttatt	acagcagggaa	aattcattaa	taaaggttaat	tcaatatatt	taccgctatc	1380
71	tttacaggtt	catcattctt	tttgtatgg	ttatcatgca	ggattgttta	tgaactctat	1440
73	tcaggaattt	tcagataggc	ctaattgactt	gttttataa	tatgagataa	tgccgactgt	1500
75	actttttaca	gtcggtttt	taatgttact	aacctgcccc	gttagttgaa	gaagggattc	1560
77	gtgttattaca	accaattctt	tttattgtata	ggtataaaag	ttttttttt	atgattttat	1620
79	aacaagttt	cttataattt	tcaaaaaaaa	ataaaaaata	tgggtgaatt	tagattttatc	1680
81	ttcccttata	ttaaaaaatg	taatccggat	tgcaaacaaa	tggggaggtt	ttacaaatgg	1740
83	aaaagctatt	taaagaagttt	aaactcgagg	aactcgaaaa	ccaaaaaagg	agtggattag	1800
85	gaaaagctca	gtgtgctgcg	tttgtggctac	aatgtgctag	tggcggtaca	attgggttg	1860

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87 gtggcggagc tggcgttgt caaaaactatc gtcaattctg cagataaaac attttagag 1920  
 89 ggaatatttt aaatattccc tcataatcaa agcggggatt gaaattgaat aagaaaaaaga 1980  
 91 aatatgttca tactaaacag ttaatagtc atgattgtgg actagcttgc atctcgtaa 2040  
 93 tttaaagtt tcataaacctt aactatggaa ttgatttctt actagaccta attggggata 2100  
 95 agaaggcta tagtttaaga gacttaatgt ttatTTAA gaagatgggg ataaaaacta 2160  
 97 gcccacttga attgcaagaa aataagacat tcgaagccct aaaacaaata aagctccctt 2220  
 99 gtatacgctt gtttagaaggg gaggaatatg gacattacat aacaatatac gaaatttagaa 2280  
 101 ataactatTTT acttggtagt gatcctgata aagacaaaat aactaaaata aaaaaagagg 2340  
 103 attttgaag taaattcaca aactttatAT tagaaattga caaagagtca attcctgaaa 2400  
 105 aagaaaaaaga tcaaaaaaaaaa cattcttact ttTTTAAGGA catactttt agaaataaaat 2460  
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 111 <211> LENGTH: 300  
 112 <212> TYPE: DNA  
 113 <213> ORGANISM: Artificial Sequence  
 115 <220> FEATURE:  
 116 <223> OTHER INFORMATION: The sequence of sunA-PG20-SL gene and its corresponding peptide sequence.  
 118 <220> FEATURE:  
 119 <221> NAME/KEY: CDS  
 120 <222> LOCATION: (1)..(300)  
 121 <223> OTHER INFORMATION:  
 124 <400> SEQUENCE: 2  
 125 atg gaa aag cta ttt aaa gaa gtt aaa ctc gag gaa ctc gaa aac caa 48  
 126 Met Glu Lys Leu Phe Lys Glu Val Lys Leu Glu Glu Leu Glu Asn Gln  
 127 1 5 10 15  
 129 aaa ggt agt gga tta gga aaa gct cag ttt gct ggc ttg tgg cta caa 96  
 130 Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln  
 131 20 25 30  
 133 ttt gct agt ggc ggt aca att ggt ttt ggt ggc ggc gcc gtt gct ttt 144  
 134 Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Ala Val Ala Cys  
 135 35 40 45  
 137 caa aac tat cgt caa ttc ttt ttt aga ggt ggt ggt ggg gga ggc ggg gga 192  
 138 Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly  
 139 50 55 60  
 141 ggg ggt ggt gga gga ggt ggt ggt ggt ggt atg tca aag ttc 240  
 142 Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe  
 143 65 70 75 80  
 145 gat gat ttc gat cta gat gtt gtg aaa gtc tct aaa caa gac tca aaa 288  
 146 Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys  
 147 85 90 95  
 149 atc act ccg caa 300  
 150 Ile Thr Pro Gln  
 151 100  
 154 <210> SEQ ID NO: 3  
 155 <211> LENGTH: 100  
 156 <212> TYPE: PRT  
 157 <213> ORGANISM: Artificial Sequence  
 159 <220> FEATURE:  
 160 <223> OTHER INFORMATION: The peptide sequence of sunA-PG20-SL.

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162 <400> SEQUENCE: 3  
164 Met Glu Lys Leu Phe Lys Glu Val Lys Leu Glu Glu Leu Glu Asn Gln  
165 1 5 10 15  
168 Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln  
169 20 25 30  
172 Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Ala Val Ala Cys  
173 35 40 45  
176 Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly  
177 50 55 60  
180 Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe  
181 65 70 75 80  
184 Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys  
185 85 90 95  
188 Ile Thr Pro Gln  
189 100

**VERIFICATION SUMMARY**

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date